



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/US99/29595 <b>(22) International Filing Date:</b> 14 December 1999 (14.12.99) <b>(30) Priority Data:</b> 09/216,668 16 December 1998 (16.12.98) US <b>(71) Applicant:</b> SONY ELECTRONICS, INC. [US/US]; 1 Sony Drive, Park Ridge, NJ 07656 (US). <b>(72) Inventors:</b> BROTZ, Mario, Udo; 151 Calderon Ave. #265, Mountain View, CA 94041 (US). WANG, David, S.; 39201 Red Hawk Terrace, Apt. #A305, Fremont, CA 94538 (US). <b>(74) Agents:</b> GALLENSON, Mavis, S. et al.; Ladas & Parry, 5670 Wilshire Boulevard, Suite 2100, Los Angeles, CA 90036-5679 (US).		<b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
<b>(54) Title:</b> A METHOD AND A SYSTEM RELATING TO DIGITAL TELEVISION AND BROADCASTING		
<div style="text-align: center;"> <p>200a</p> <pre> graph LR     190[DIGITAL TV BROADCASTER] -- 150 --&gt; 112[DTV SET-TOP-BOX]     108[USER INPUT DEVICE(S)] --&gt; 112     112 -- 124 --&gt; 105[DISPLAY DEVICE TELEVISION]     subgraph 170a         112         108         105     end       </pre> </div>		
<b>(57) Abstract</b> <p>A client-side intelligent device (112) having background caching of web pages within a digital television (DTV) system (170a) having an intelligent device (112) interfacing with a user/viewer input device (106) and controlling the display of information on a display device (105). The intelligent device (112) in one embodiment, is a set-top-box but could be any intelligent electronic device or computer system. The set-top-box is configured to receive a DTV signal that includes audio/visual information as well as data signals in a datacast format. The datacast format includes web pages, e.g., in the HTML (hypertext markup language) format of the world wide web. An intelligent filter is used that modifies itself based on user behavior and user preferences in terms of the web pages that a viewer routinely visits. The intelligent filter is then used to identify certain web pages of the pages that are being broadcast and these identified web pages are stored in a cache memory for later use by the viewer.</p>		